

This page is mainly introduced the **Z3CND18-14-05Az Datasheet**, including chemical information, mechanical properties, physical properties, mechanical properties, heat treatment, and Micro structure, etc. It also contains the use of **Z3CND18-14-05Az**, such as it is commonly used in bars, sheet, plates, steel coils, steel pipes, forged and other materials application.

## Datasheet for Steel Grades Specialsteel Z3CND18-14-05Az

### Z3CND18-14-05Az Standard Number:

ITEM	Standard Number	Descriptions
1	NF A 35-573	Stainless steels for general purposes. Plates, wide strips and strips
2	NF A 36-209	Iron and steel. Austenitic and austenitic-ferritic stainless steels plates for boilers and pressure vessels
3	NF A 49-244	Steel tubes - Welded austenitic stainless and austenitic ferritic steel rolled tubes for pressure service - Dimensions, technical conditions for delivery

### Z3CND18-14-05Az Chemical composition (mass fraction) (wt.%)

Chemical		Min.(%)		Max.(%)					
C				0.030					
Si				0.75					
Mn				2.00					
P				0.035					
S				0.010					
Cr		17.00		19.00					
Mo		4.00		5.00					
Ni		13.00		15.00					
N		0.12		0.20					
C	Si	Mn	P	S	Cr	Ni	Mo	V	Ta
W	N	Cu	Co	Pb	B	Nb	Al	Ti	Other

Steel tubes - Welded austenitic stainless and austenitic ferritic steel rolled tubes for pressure service - Dimensions, technical conditions for delivery

### Z3CND18-14-05Az Physical Properties

Tensile strength	115-234	$\sigma_b$ /MPa
Yield Strength	23	$\sigma_{0.2} \geq$ /MPa
Elongation	65	$\delta_5 \geq$ (%)
$\psi$	-	$\psi \geq$ (%)
Akv	-	Akv $\geq$ /J
HBS	123-321	-
HRC	30	-

### Z3CND18-14-05Az Mechanical Properties

Tensile strength	231-231	$\sigma_b$ /MPa
Yield Strength	154	$\sigma_{0.2} \geq$ /MPa
Elongation	56	$\delta_5 \geq$ (%)
$\psi$	-	$\psi \geq$ (%)
Akv	-	Akv $\geq$ /J
HBS	235-268	-
HRC	30	-

### Z3CND18-14-05Az Heat Treatment Regime

Annealing	Quenching	Tempering	Normalizing	Q & T
√	√	√	√	√

### Z3CND18-14-05Az Range of products

Product type	Products	Dimension	Processes	Deliver Status
Plates / Sheets	Plates / Sheets	0.08-200mm(T)*W*L	Forging, hot rolling and cold rolling	Annealed, Solution and Aging, Q+T, ACID-WASHED, Shot Blasting
Steel Bar	Round Bar, Flat Bar, Square Bar	Φ8-1200mm*L	Forging, hot rolling and cold rolling, Cast	Black, Rough Turning, Shot Blasting,
Coil / Strip	Steel Coil /Steel Strip	0.03-16.0x1200mm	Cold-Rolled & Hot-Rolled	Annealed, Solution and Aging, Q+T, ACID-WASHED, Shot Blasting
Pipes / Tubes	Seamless Pipes/Tubes, Welded Pipes/Tubes	OD:6-219mm x WT:0.5-20.0mm	Hot extrusion, Cold Drawn, Welded	Annealed, Solution and Aging, Q+T, ACID-WASHED

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